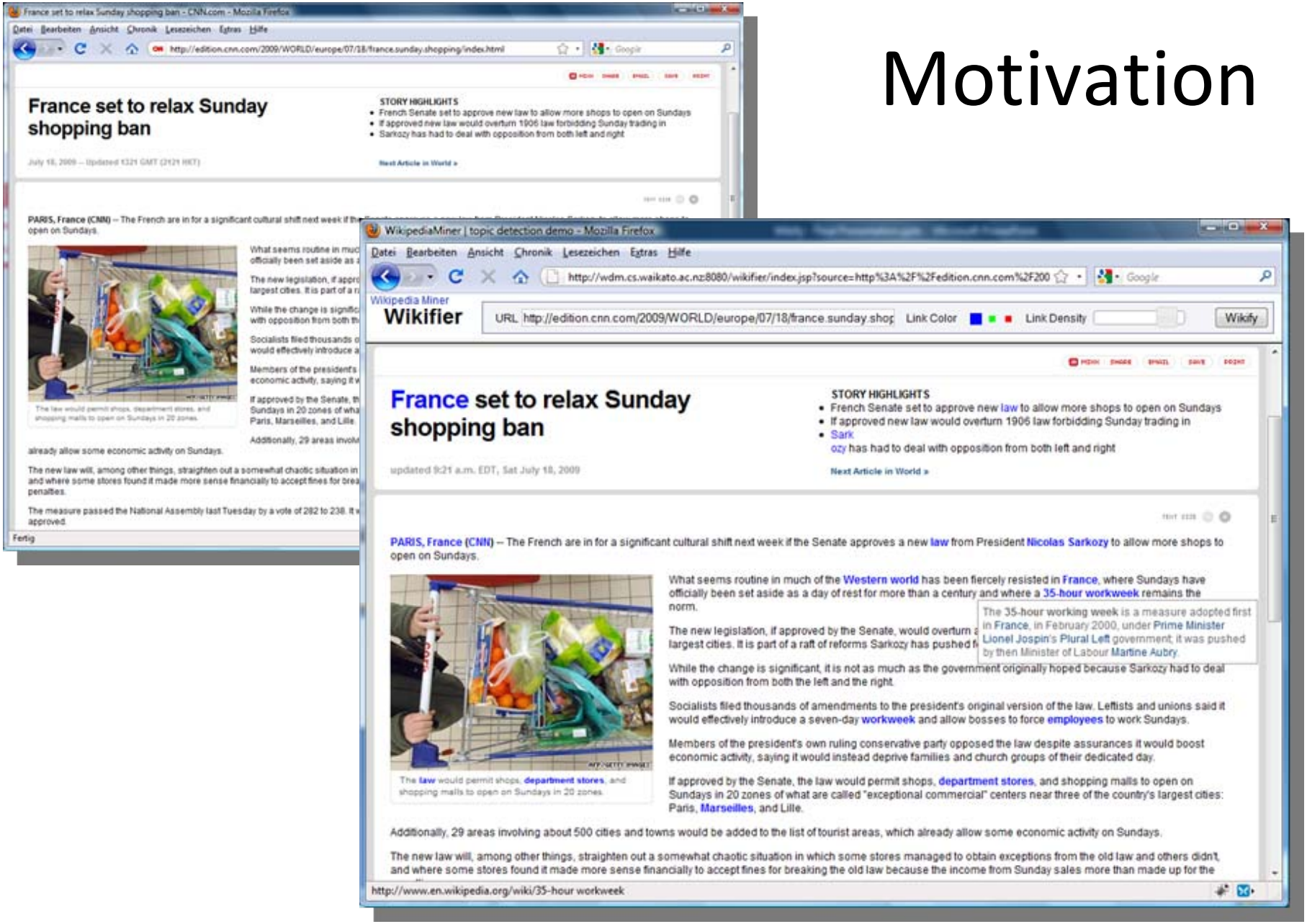
# Wikify!

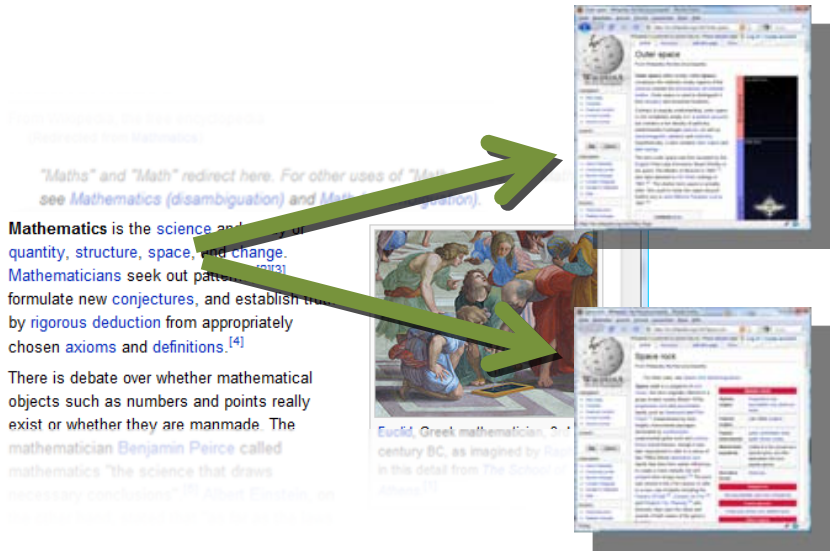
Search Engines

Nicolas Peters
Willi Tscheschner

# Motivation

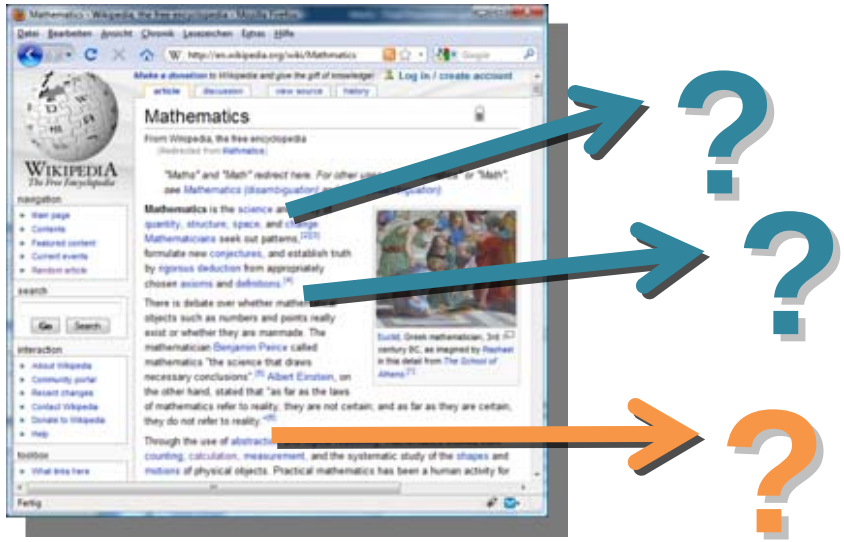

France set to relax Sunday shopping ban - CNN.com - Mozilla Firefox
France set to relax Sunday shopping ban
STORY HIGHLIGHTS
French Senate set to approve new law to allow more shops to open on Sundays
If approved new law would overturn 1906 law forbidding Sunday trading in
Sarkozy has had to deal with opposition from both left and right
PARIS, France (CNN) -- The French are in for a significant cultural shift next week if the Senate approves a new law from President Nicolas Sarkozy to allow more shops to open on Sundays.
What seems routine in much of the Western world has been fiercely resisted in France, where Sundays have officially been set aside as a day of rest for more than a century and where a 35-hour workweek remains the norm.
The new legislation, if approved by the Senate, would overturn a 1906 law forbidding Sunday trading in most of the largest cities. It is part of a raft of reforms Sarkozy has pushed through.
While the change is significant, it is not as much as the government originally hoped because Sarkozy had to deal with opposition from both the left and the right.
Socialists filed thousands of amendments to the president's original version of the law. Leftists and unions said it would effectively introduce a seven-day workweek and allow bosses to force employees to work Sundays.
Members of the president's own ruling conservative party opposed the law despite assurances it would boost economic activity, saying it would instead deprive families and church groups of their dedicated day.
If approved by the Senate, the law would permit shops, department stores, and shopping malls to open on Sundays in 20 zones of what are called "exceptional commercial" centers near three of the country's largest cities: Paris, Marseilles, and Lille.
Additionally, 29 areas involving about 500 cities and towns would be added to the list of tourist areas, which already allow some economic activity on Sundays.
The new law will, among other things, straighten out a somewhat chaotic situation in which some stores managed to obtain exceptions from the old law and others didn't, and where some stores found it made more sense financially to accept fines for breaking the old law because the income from Sunday sales more than made up for the
The law would permit shops, department stores, and shopping malls to open on Sundays in 20 zones.
The 35-hour working week is a measure adopted first in France, in February 2000, under Prime Minister Lionel Jospin's Plural Left government; it was pushed by then Minister of Labour Martine Aubry.
WikipediaMiner | topic detection demo - Mozilla Firefox
Wikipedia Miner
Wikifier
Wikify
http://www.en.wikipedia.org/wiki/35-hour workweek

# Introduction *Wikify!*



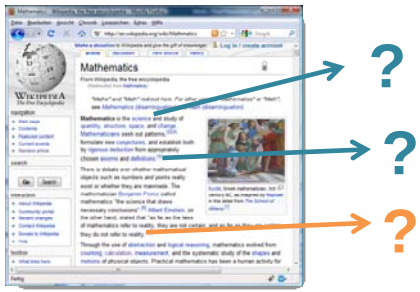

Disambiguation

Link Detection



# *Wikify!*
# Reference Values

| | Precision | Recall | F-Measure |
|---|---|---|---|
| *Reference from Paper* | *98.40* | *95.70* | *97.10* |
| Reference | **95.37** | **93.82** | **94.59** |




| | Precision | Recall | F-Measure |
|---|---|---|---|
| *Reference from Paper* | *72.90* | *77.30* | *75.00* |
| Reference | **63.04** | **70.49** | **66.55** |

# Optimization

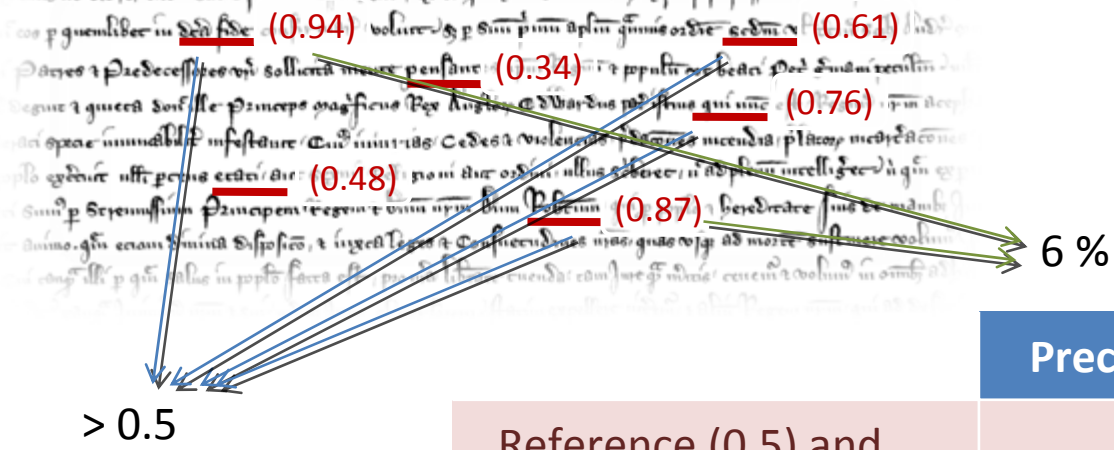
## Test / Train Data

| | *Disambiguation* | | | *Link Detection* | | |
|---|---|---|---|---|---|---|
| | **Precision** | **Recall** | **F-Measure** | **Precision** | **Recall** | **F-Measure** |
| Reference (Random Articles > 50 Links) | 95.37 | **93.82** | 94.59 | 63.04 | 70.49 | 66.55 |
| Featured > 50 Links / Random > 50 Links | 96.61 | 93.24 | 94.90 | 64.73 | 76.41 | 70.09 |
| Featured > 148 Links / Featured > 50 Links | 95.79 | 93.00 | 94.38 | 71.45 | **80.74** | 75.81 |
| Featured > 100 Links / Featured > 50 Links | 95.62 | 93.10 | 94.34 | **72.26** | 80.03 | **75.94** |
| Featured > 100 Links / Random > 50 Links | **96.66** | 93.53 | **95.07** | 66.54 | 77.19 | 71.47 |
| Featured > 50 Links / Featured > 50 Links | 96.61 | 93.24 | 94.90 | 71.54 | 79.76 | 75.43 |

# Optimization
## Classifier

| | *Link Detection* | | |
|---|---|---|---|
| | **Precision** | **Recall** | **F-Measure** |
| Bagging and C4.5 and Featured 100/50 | 72.26 | 80.03 | 75.94 |
| Bagging and C4.5 with 100 Iteration | 72.39 | **80.44** | 76.20 |
| Dagging and Random Forest with 10 Iterations | 75.67 | 78.27 | **76.95** |
| Dagging and Random Forest with 100 Iterations | 76.65 | 78.29 | **76.95** |
| Dagging and SVM | 70.78 | 77.89 | 74.17 |
| Bagging and SVM | 70.56 | 78.23 | 74.10 |
| Lazy IBK | **76.94** | 68.4 | 72.42 |
| AdaBoostM1 und DecisionStump | 70.27 | 71.86 | 71.06 |

# Optimization
## Link Density




| | Precision | Recall | F-Measure |
|---|---|---|---|
| Reference (0.5) and Featured 100/50 | 72.26 | 80.03 | 75.94 |
| 0.6 | 76.05 | 76.35 | **76.20** |
| 0.7 | **79.38** | 70.77 | 74.83 |
| 10% | 35.33 | **87.64** | 50.36 |
| 6% | 52.28 | 85.17 | 64.79 |
| 5% | 60.70 | 82.49 | 69.94 |
| 4% | 69.94 | 76.14 | 72.91 |
| 3.5% | 74.55 | 71.06 | 72.76 |
| 3% | 78.79 | 64.42 | 70.89 |

Thank you!

Questions?